

10/552515

SEQUENCE LISTING

<110> The Government of the United States of America as  
represented by the Secretary of the Department of Health and  
Human Services  
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Pastan, Ira H.  
Lee, Byungkook

<120> GENE EXPRESSED IN PROSTATE CANCER AND METHODS OF USE

<130> 4239-68223-02

<150> PCT/US2004/10588

<151> 2004-04-05

<150> 60/461,399

<151> 2003-04-08

<160> 12

<170> PatentIn version 3.2

<210> 1

<211> 933

<212> PRT

<213> Artificial Sequence

<220>

<223> splice Variant-Novel Gene Expressed in Prostate

<400> 1

Met Arg Met Ala Ala Thr Ala Trp Ala Gly Leu Gln Gly Pro Pro Leu  
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Pro Thr Leu Cys Pro Ala Val Arg Thr Gly Leu Tyr Cys Arg Asp Gln  
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Ala His Ala Glu Arg Trp Ala Met Thr Ser Glu Thr Ser Ser Gly Ser  
35 40 45

His Cys Ala Arg Ser Arg Met Leu Arg Arg Arg Ala Gln Glu Glu Asp  
50 55 60

Ser Thr Val Leu Ile Asp Val Ser Pro Pro Glu Ala Glu Lys Arg Gly  
65 70 75 80

Ser Tyr Gly Ser Thr Ala His Ala Ser Glu Pro Gly Gly Gln Gln Ala  
85 90 95

Ala Ala Cys Arg Ala Gly Ser Pro Ala Lys Pro Arg Ile Ala Asp Phe  
100 105 110

Val Leu Val Trp Glu Glu Asp Leu Lys Leu Asp Arg Gln Gln Asp Ser  
115 120 125

Ala Ala Arg Asp Arg Thr Asp Met His Arg Thr Trp Arg Glu Thr Phe  
 130 135 140  
 Leu Asp Asn Leu Arg Ala Ala Gly Leu Cys Val Asp Gln Gln Asp Val  
 145 150 155 160  
 Gln Asp Gly Asn Thr Thr Val His Tyr Ala Leu Leu Ser Ala Ser Trp  
 165 170 175  
 Ala Val Leu Cys Tyr Tyr Ala Glu Asp Leu Arg Leu Lys Leu Pro Leu  
 180 185 190  
 Gln Glu Leu Pro Asn Gln Ala Ser Asn Trp Ser Ala Gly Leu Leu Ala  
 195 200 205  
 Trp Leu Gly Ile Pro Asn Val Leu Leu Glu Val Val Pro Asp Val Pro  
 210 215 220  
 Pro Glu Tyr Tyr Ser Cys Arg Phe Arg Val Asn Lys Leu Pro Arg Phe  
 225 230 235 240  
 Leu Gly Ser Asp Asn Gln Asp Thr Phe Phe Thr Ser Thr Lys Arg His  
 245 250 255  
 Gln Ile Leu Phe Glu Ile Leu Ala Lys Thr Pro Tyr Gly His Glu Lys  
 260 265 270  
 Lys Asn Leu Leu Gly Ile His Gln Leu Leu Ala Glu Gly Val Leu Ser  
 275 280 285  
 Ala Ala Phe Pro Leu His Asp Gly Pro Phe Lys Thr Pro Pro Glu Gly  
 290 295 300  
 Pro Gln Ala Pro Arg Leu Asn Gln Arg Gln Val Leu Phe Gln His Trp  
 305 310 315 320  
 Ala Arg Trp Gly Lys Trp Asn Lys Tyr Gln Pro Leu Asp His Val Arg  
 325 330 335  
 Arg Tyr Phe Gly Glu Lys Val Ala Leu Tyr Phe Ala Trp Leu Gly Phe  
 340 345 350  
 Tyr Thr Gly Trp Leu Leu Pro Ala Ala Val Val Gly Thr Leu Val Phe  
 355 360 365  
 Leu Val Gly Cys Phe Leu Val Phe Ser Asp Ile Pro Thr Gln Glu Leu  
 370 375 380

Cys Gly Ser Lys Asp Ser Phe Glu Met Cys Pro Leu Cys Leu Asp Cys  
 385 390 395 400  
 Pro Phe Trp Leu Leu Ser Ser Ala Cys Ala Leu Ala Gln Ala Gly Arg  
 405 410 415  
 Leu Phe Asp His Gly Gly Thr Val Phe Phe Ser Leu Phe Met Ala Leu  
 420 425 430  
 Trp Ala Val Leu Leu Leu Glu Tyr Trp Lys Arg Lys Ser Ala Thr Leu  
 435 440 445  
 Ala Tyr Arg Trp Asp Cys Ser Asp Tyr Glu Asp Thr Glu Glu Arg Pro  
 450 455 460  
 Arg Pro Gln Phe Ala Ala Ser Ala Pro Met Thr Ala Pro Asn Pro Ile  
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 Thr Gly Glu Asp Glu Pro Tyr Phe Pro Glu Arg Ser Arg Ala Arg Arg  
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 545 550 555 560  
 Ser Lys Ile Tyr Val Ser Leu Ala His Val Leu Thr Arg Trp Glu Met  
 565 570 575  
 His Arg Thr Gln Thr Lys Phe Glu Asp Ala Phe Thr Leu Lys Val Phe  
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 Ile Phe Gln Phe Val Asn Phe Tyr Ser Ser Pro Val Tyr Ile Ala Phe  
 595 600 605  
 Phe Lys Gly Arg Phe Val Gly Tyr Pro Gly Asn Tyr His Thr Leu Phe  
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 Gly Val Arg Asn Glu Glu Cys Ala Ala Gly Gly Cys Leu Ile Glu Leu  
 625 630 635 640

Ala Gln Glu Leu<sub>645</sub> Val Ile Met Val Gly<sub>650</sub> Lys Gln Val Ile Asn<sub>655</sub> Asn  
 Met Gln Glu Val<sub>660</sub> Leu Ile Pro Lys Leu<sub>665</sub> Lys Gly Trp Trp Gln<sub>670</sub> Lys Phe  
 Arg Leu Arg<sub>675</sub> Ser Lys Lys Arg Lys<sub>680</sub> Ala Gly Ala Ser Ala<sub>685</sub> Gly Ala Ser  
 Gln Gly<sub>690</sub> Pro Trp Glu Asp Asp<sub>695</sub> Tyr Glu Leu Val Pro<sub>700</sub> Cys Glu Gly Leu  
 Phe Asp Glu Tyr Leu Glu<sub>710</sub> Met Val Leu Gln Phe<sub>715</sub> Gly Phe Val Thr Ile<sub>720</sub>  
 Phe Val Ala Ala Cys<sub>725</sub> Pro Leu Ala Pro Leu<sub>730</sub> Phe Ala Leu Leu Asn<sub>735</sub> Asn  
 Trp Val Glu Ile<sub>740</sub> Arg Leu Asp Ala Arg<sub>745</sub> Lys Phe Val Cys Glu<sub>750</sub> Tyr Arg  
 Arg Pro Val<sub>755</sub> Ala Glu Arg Ala Gln<sub>760</sub> Asp Ile Gly Ile Trp<sub>765</sub> Phe His Ile  
 Leu Ala Gly Leu Thr His Leu<sub>775</sub> Ala Val Ile Ser Asn<sub>780</sub> Ala Phe Leu Leu  
 Ala Phe Ser Ser Asp Phe<sub>790</sub> Leu Pro Arg Ala Tyr<sub>795</sub> Tyr Arg Trp Thr Arg<sub>800</sub>  
 Ala His Asp Leu Arg<sub>805</sub> Gly Phe Leu Asn Phe<sub>810</sub> Thr Leu Ala Arg Ala<sub>815</sub> Pro  
 Ser Ser Phe Ala<sub>820</sub> Ala Ala His Asn Arg<sub>825</sub> Thr Cys Arg Tyr Arg<sub>830</sub> Ala Phe  
 Arg Asp Asp<sub>835</sub> Asp Gly His Tyr Ser<sub>840</sub> Gln Thr Tyr Trp Asn<sub>845</sub> Leu Leu Ala  
 Ile Arg<sub>850</sub> Leu Ala Phe Val Ile<sub>855</sub> Val Phe Glu His Val<sub>860</sub> Val Phe Ser Val  
 Gly Arg Leu Leu Asp Leu<sub>870</sub> Leu Val Pro Asp Ile<sub>875</sub> Pro Glu Ser Val Glu<sub>880</sub>  
 Ile Lys Val Lys Arg<sub>885</sub> Glu Tyr Tyr Leu Ala<sub>890</sub> Lys Gln Ala Leu Ala<sub>895</sub> Glu

Asn Glu Val Leu Phe Gly Thr Asn Gly Thr Lys Asp Glu Gln Pro Lys  
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Ser Gln Leu Gln Gln  
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<210> 2  
 <211> 3308  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Splice Variant-Novel Gene Expressed in Prostate

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<210> 3  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Splice Variant-Novel Gene Expressed in Prostate

<400> 3

Ser Leu Phe Met Ala Leu Trp Ala Val  
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<210> 4  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Splice Variant-Novel Gene Expressed in Prostate

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 1 5

<210> 5  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Splice Variant-Novel Gene Expressed in Prostate

<400> 5

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<220>  
 <223> Splice Variant-Novel Gene Expressed in Prostate

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<211> 9  
<212> PRT  
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<220>  
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<210> 8  
<211> 9  
<212> PRT  
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<220>  
<223> Splice Variant-Novel Gene Expressed in Prostate

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Ile Leu Phe Glu Ile Leu Ala Lys Thr  
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<210> 9  
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<223> oligonucleotide primer/probe

<400> 11



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<210> 12

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide primer/probe

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